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MONSANTO

From: Gordon A. Grundmann CS6G Corporate Engineering (4-6112)

Date: November 2, 1984

cc: D.R. Bowers CS6G

Subj: Project Progress Meeting

L.V. Bumbicka 1740

R.M. Calles CS6G

M.A. Coco Alberici

Re: CEA 3808 - Main South Trunk Sewer

E.R. Hartman CS6G

P.R. Hoemann 1740

TO: W. Bodine Alberici*

L.C. Kreh F2ED

T.N. Carrico 1740*

F.A. Mayse CS6G*

W.C. Koester Alberici*

R.J. Murphy 1740

K.W. Lichtenheld CS6G

R.L. Wiese CS6G

C.J. Lotz Alberici*

R.L. Nelson 1740*

O.N. Shipley 1740*

T.W. Wright CS6G

* Present at meeting

Following are minutes of the meetings held at the CED construction trailers on 10/25/84 and 11/01/84 at 9:00 a.m. The minutes for the 10/25 meeting were written by Ken Lichtenheld and have been supplemented with additional information discussed at the 11/01 meeting.

1. Construction Progress

a. Elevation check.

- (1) Alberici is checking the lateral flow line elevations to insure that they will flow into the main sewer line at the proper elevations.
- (2) Lichtenheld has established new flow line elevations for the manholes. This was necessary due to incorrect as-built drawing information on the Village Box at Rt. 3. This information has been given verbally to Alberici. Drawings are being revised and will be re-issued on November 9, or earlier. Lichtenheld to issue letter to Alberici.
- (3) Due to the decrease in the slope of the line, the sewer capacity has been reduced about 5% as follows:

	<u>Slope</u>	<u>Capacity</u>
Contract drawings	0.00125	15,900 gpm
Revised drawings	0.00113	15,034 gpm

- b. Work on the relocation of the benzene line was completed on schedule (Friday, October 19, 1984). Backfilling of trench remains to be completed.

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- c. Driving of soldier piles has been started. The piles have been driven for the first 200-feet of the routing. Excavation has started.
- d. Results of the soil testing for contamination need to be expedited. Nelson to follow-up.

2. 42" Diameter VCP Pipe Delivery

- a. Hydrostatic testing of pipe was started on 10/24. Approximately five pipes can be tested per day. The manufacturer will test additional pipe on a second shift if delivery requirements demand. Thirteen pieces of pipe have been received at the site.
- b. Nelson & Lichtenheld will probably make a trip to the VCP manufacturer to observe the hydrostatic testing. (week of 11/05.
- c. Alberici will pre-fit VCP and mark for best fit of spigot in bell prior to installation in trench.
- d. Alberici will erect a protective covering for approximately 10 pipes. This will insure clean, dry pipe prior to installation in the sewer.
- e. VCP manufacturer has letter of 10/15/84 by Lichtenheld indicating no cracks or chips will be allowed in VCP. Project specifications are to be strictly followed.

3. VCP Joint Material

- a. Pennwalts green panel mortar with ceramic fibers is approved by the plant and design for the VCP joint material. This material is approved for the initial, caulking, and back joint. The spigot and bell are to be primed with furan prior to buttering. The method and number of passes to make a joint is undetermined at this time. This will be incorporated in the Pennwalt show and tell by using four different methods of placing the mortar.

The test will be performed at Alberici's shop at 2150 Kienlen at 1:00 p.m. on Monday, November 5, 1984.

- b. The test on a pipe joint using Atlas material is off due to the commitment on the Pennwalt material.

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4. ACL Railroad Track Access

- a. Plant safety review on using remote railroad cars for chlorine storage was not completed. Preliminary cost estimates on this option indicate a cost of over \$80k. Also, a great risk of an ACL leak is present.
 - b. Alberici has developed costs on using a 9-foot diameter corrugated pipe installed in an open cut. The pipe would be approximately 40-foot in length. The cost for this work is estimated at \$26k. Employing this method will allow the 42" VCP to be installed at any time. The estimated cost includes only additional excavation, backfill, concrete, etc., resulting from this construction technique.

The plant prefers this method of construction over others considered.
 - c. The ACL shutdown is still scheduled to start 11/28/84.
5. Lateral box 1-HH has been eliminated from the project. Grundmann to write letter. Box 1-JJ must be moved to the east across the tracks so that it can be installed without interfering with the railroad tracks. Lichtenheld to furnish relocation information to Alberici.
 6. A PCN has been written eliminating the sales tax from the project since Monsanto's tax department has ruled that this project is tax exempt for environmental reasons.
 7. Nelson is still working with the BBZ manufacturing people to determine their access needs during the construction period. ACL will be able to use docks on the east side on a temporary basis. Some temporary modifications must be made.

One access crossing may be needed at the south end for truck traffic.
 8. Well #14 appears to interfere with the proposed location of manhole 3-BB. Lichtenheld to review.
 9. Schedule. The primary effort initially is to concentrate on the 42" pipe installation. The timing for installation of the lateral lines and tie in work needs to be planned.


Gordon Grundmann

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